

Title (en)
SKELETON MEMBER STRUCTURE

Title (de)
GERÜSTGLIEDKONSTRUKTION

Title (fr)
STRUCTURE ELEMENT DE SQUELETTE

Publication
EP 1485634 A1 20041215 (EN)

Application
EP 03723091 A 20030313

Priority

- JP 0302972 W 20030313
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- JP 2002077230 A 20020319

Abstract (en)
[origin: US2005124730A1] A skeleton member structure having a tubular structural member (11, 211) filled with granular materials for absorbing impact energy. The granular materials includes a granular material having a hollow portion (12 a, 212 a) or a porous granular material. When the skeleton member receives an impact, the granular materials are deformed or collapsed, and impact energy is stably absorbed. Since the granular materials are hollow or porous, the weight of the skeleton member filled with the granular materials is reduced.

IPC 1-7
F16F 7/12; **B62D 25/00**

IPC 8 full level
B60R 99/00 (2009.01); **F16F 7/01** (2006.01); **F16F 7/12** (2006.01)

CPC (source: EP US)
F16F 7/015 (2013.01 - EP US); **F16F 7/121** (2013.01 - EP US)

Citation (search report)
See references of WO 03078858A1

Cited by
RU2679300C1

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2005124730 A1 20050609; **US 7226120 B2 20070605**; CA 2467706 A1 20030925; CN 100398379 C 20080702; CN 1606664 A 20050413; DE 60305667 D1 20060706; DE 60305667 T2 20061005; EP 1485634 A1 20041215; EP 1485634 B1 20060531; WO 03078858 A1 20030925

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US 50754504 A 20040914; CA 2467706 A 20030313; CN 03801704 A 20030313; DE 60305667 T 20030313; EP 03723091 A 20030313; JP 0302972 W 20030313